



EN ISO 20345:2022

Class: S3S FO SC SR

ESD

Sizes: 34-48

Available in stock only sizes

36-48

Instep: 12

Weight (±10%): **625 gr.** (\*)

## TECHNICAL SHEET ART. GLADIATOR

**Description:** high shoe in black nubuck leather, water-repellent with padded storm-cuff; HIGH-TEX inserts, 100% polyester lining, non-metallic HRP Insole, ATOMIC insole, anatomic, antistatic, breathable and ESD, double density polyurethane sole, bending resistant, abrasion resistant, oil resistant, slip resistant, ESD

**Plus:** midsole compound particularly studied to get a soft PU density for a higher comfort  
**Suggested sectors of usage:** Farming / Zootechnics, Cooperative Society, Building / Construction, Mineral Industry, Naval Industry, Servicing, Logistic / Packaging, Professional / Craftsman

**Care and Maintenance:** clean periodically the outsole and the upper with non-aggressive substances which could compromise quality, safety and durability of the shoe, do not dry close to direct heat source



Complete shoe	Norm	Description	Unit	Results	EN ISO 20345 requirements
<b>Toe Cap:</b> non-metallic toe cap TOP COMPOSITE, impact resistant 200 J	5.3.2.6	Impact resistance	mm	15	≥ 14
	5.3.2.7	Compression resistance	mm	15,5	≥ 14
<b>Midsole:</b> non-metallic HRP Insole with high tenacity fibres multi layers, polyester composition, perforation resistant	6.2.1	Perforation resistance (single value)	N	1518	≥ 950
		Average value		1460	≥ 1.100
<b>ESD footwear:</b> dissipation capacity of the electrostatic charge	EN ISO 61340-5-1	Electrical resistance for ESD footwear	Mohm	58	< 100
<b>Capacity of Energy Absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	29	≥ 20
<b>Upper:</b> black nubuck leather, water-repellent with padded storm-cuff. HIGH-TEX inserts	5.4.3	Tear strength	N	229	≥ 120
	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> · h	5,3	≥ 0,8
		Water vapour coefficient	mg/cm <sup>2</sup>	46,5	≥ 15
<b>Vamp/Quarter Lining:</b> honeycomb 100% finished polyester, breathable, abrasion resistant, red colour	5.5.4	Water vapour permeability	mg/cm <sup>2</sup> · h	27,9	≥ 2
		Water vapour coefficient	mg/cm <sup>2</sup>	223,6	≥ 20
	5.5.2	Tear strength	N	39	≥ 15
	5.5.3	Abrasion resistance (dry)	cycles	no holes	25.600
		Abrasion resistance (wet)	cycles	no holes	12.800
<b>Sole:</b> double density polyurethane, bending resistant, abrasion resistant, oil resistant, slip resistant, ESD	5.8.3	Tear strength	kN/m	15	≥ 8
	5.8.4	Abrasion resistance (black)	mm <sup>3</sup>	67	≤ 150
	5.8.5	Bending resistance	mm	0,5	≤ 4
	5.8.6	Hydrolysis	mm	0,7	≤ 6
	6.4.2	Hydrocarbons resistance (volume increase)	%	6,8	≤ 12%
	6.2.10	Slip resistance on ceramic floor with water and detergent	heel forward (7°)	0,47	≥ 0,31
			tip back (7°)	0,48	≥ 0,36
		Slip resistance on ceramic glycerine (SR)	heel forward (7°)	0,26	≥ 0,19
			tip back (7°)	0,28	≥ 0,22

In model GLADIATOR and its components there is no presence of dangerous substances by Annex XVII to regulation no. 1907/2006/CE and subsequent amendments and additions

(\*) = Indicative weight that refers to ½ pair in size 42